

Tennessee Immunization Information System (TennIIS) Electronic Data Exchange Fact Sheet and Onboarding Checklist

Introduction

TennIIS is a free, secure, and easy-to-use online registry of vaccinations received by Tennessee residents and managed by the Tennessee Department of Health. TennIIS can be utilized by healthcare providers, pharmacists, schools, and childcare administration to access and update vaccination records.

For eligible professionals and hospitals, participation in Electronic Data Exchange with TennIIS is a valid public health reporting measure under the federal Centers for Medicare and Medicaid Services (CMS) Promoting Interoperability Incentive Program (PIIP).

Message Transport Options

- **Secure File Transport (SFTP):** Used to electronically exchange batched immunization messages.
- **Web Services:** CDC Web Services Definition Language (WSDL) is the formally defined real-time transport standard for transmitting immunization data via HL7 messaging.
- **Health Information Exchange (HIE):** Facilities may elect to establish electronic data connections through a Health Information Exchange (HIE). The East Tennessee Health Information Network (eTHIN) can connect with TennIIS. Please contact the HIE in your region for additional information.

Eligible Professionals, Eligible Hospitals, or vendors seeking to establish a connection with TennIIS using any method listed above should complete the tasks in the **TennIIS Electronic Data Exchange Onboarding Checklist** (below) to obtain more information and begin the process of electronic data exchange.

Update (VXU) and Query (QBP) Messages

Healthcare providers and EHR vendors can exchange immunization data with the Tennessee Department of Health through TennIIS. Electronic data exchange (EDE) may be achieved using any of the following methods:

Unidirectional Messages (VXU Update): Submission-only connections electronically update TennIIS with immunizations given in the practice. To see doses given at any other site that submits data to TennIIS, the provider must manually access the patient record in TennIIS.

Bidirectional Messages (VXU Update and QBP Query): Bidirectional messaging electronically updates TennIIS with immunizations given in the practice and enables providers to view and/or upload vaccine information from TennIIS in the provider's EHR. Tennessee does not implement *query only* connections.

VXU and QBP Message Specified Onboarding Thresholds

Normal Onboarding:

VXUs for Organizations with VFC Facilities must include:

- Administered and Historical immunizations
- Patient Eligibility Status and Vaccine Funding Source OBX segments
 - Both Publicly and Privately funded vaccinations
- Substance lot number and Manufacturer for Administered immunizations
- Valid Race and Ethnicity values
- A minimum of 50 VXU messages with no fatal errors for final reviewing

VXUs for Organizations with no VFC Facilities must include:

- Administered and Historical immunizations

- Patient Eligibility Status and Vaccine Funding Source OBX segments
- A minimum of 50 VXU messages with no fatal errors for final reviewing

VXUs for Pharmacies:

- Administered immunizations
- A minimum of 30 VXU messages with no fatal errors for final reviewing

QBP Messages (Bi-Directional Only) must include:

- Query for a patient that does not exist in the IIS
- Query for a patient which gives an exact match
- Query for a patient which matches to multiple patients
- Quantity Limited Number between 3 and 20
- A minimum of 30 QBP messages with no fatal errors for final reviewing

Pandemic Onboarding:

VXUs for Organizations with VFC Facilities must include:

- Administered and Historical immunizations
- Patient Eligibility Status and Vaccine Funding Source OBX segments.
 - o Both Publicly and Privately funded vaccinations
- A minimum of 50 VXU messages with no fatal errors for final reviewing

VXUs for Organizations with no VFC Facilities must include:

- Administered and Historical immunizations.
- A minimum of 50 VXU messages with no fatal errors for final reviewing

VXUs for Pharmacies:

- Administered immunizations
- A minimum of 30 VXU messages with no fatal errors for final reviewing

QBP Messages (Bi-Directional Only) must include:

- Query for a patient that does not exist in the IIS
- Query for a patient which gives an exact match
- Query for a patient which matches to multiple patients
- Quantity Limited Number between 3 and 20
- A minimum of 30 QBP messages with no fatal errors for final reviewing.

Resources

- CDC Implementation Guide
<http://www.cdc.gov/vaccines/programs/iis/technical-guidance/downloads/hl7guide-1-5-2014-114.pdf>

Vaccines Administered Code Set Tables

- HL7 Standard MVX Code Set Table
<http://www2a.cdc.gov/vaccines/IIS/IISStandards/vaccines.asp?rpt=cvx>
- Standard CVX Code Set Table
<http://www2a.cdc.gov/vaccines/IIS/IISStandards/vaccines.asp?rpt=cvx>
- CPT Codes Mapped to CVX Codes
<http://www2a.cdc.gov/vaccines/IIS/IISStandards/vaccines.asp?rpt=cpt>
- NDC Lookup Crosswalk
<https://www2a.cdc.gov/vaccines/iis/iisstandards/vaccines.asp?rpt=ndc>
- Product Name Mapped to CVX/MVX
<https://www2a.cdc.gov/vaccines/iis/iisstandards/vaccines.asp?rpt=tradename>

TennIIS Electronic Data Exchange Onboarding Checklist

- Trading partner reaches out to TennIIS with interest in exchanging data
- Trading partner is sent Welcome Packet and sends availability (for provider and vendor contacts) for Welcome Call
- Trading partner and vendor participate on Welcome Call
- Trading partner and vendor fill out and return:
 - o Organization form
 - o Facility form(s)
 - o Vendor/Transport form
 - o Trading Partner Agreement (TPA)
 - o Security forms (if applicable)
- Trading partner and vendor are sent Welcome to Staging email for review of technical specifications
- Trading partner/vendor submits test messages to TennIIS staging environment
- Trading partner/vendor requests a data quality review of messages received. Messages will continue to be sent, addressing errors and needed revisions, until "Approved for TennIIS production" is achieved.
- Trading partner and vendor participate in Close-Out Call
- Trading partner/vendor submit data to Production within 3 business days of Close-Out Call
- Trading partner organization point of contact emails TennIIS.Registration@tn.gov with list of users within one week of Close-Out Call (include name, email address, and facility association)
- Continue ongoing submission and correct any issues identified by TennIIS team in a timely manner